

Agency Use

Permit No.:

MTG010135

Date Rec'd

2/3/9

Amount Rec'd

Check No.

Rec'd By

LB

FORM  
NMP

## Nutrient Management Plan

**READ THIS BEFORE COMPLETING FORM:** Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or <http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp>

**Section A - NMP Status (Check one):**

New

No prior NMP submitted for this site.

☒ Modification

Change or update to existing NMP.

Permit Number: MT G010135 (Specify the permit number that was previously assigned to your facility.)**Section B - Facility or Site Information:**Site Name Weschenfelder Feedlot, Inc.Site Location Latitude: 45 degree 38 ' Longitude: W 108 degree 55'Nearest City or Town Park City County Stillwater**Section C - Applicant (Owner/Operator) Information:**Owner or Operator Name Owner: Henry & Dan Weschenfelder Operator: Nathan ReiterMailing Address 10626 C.A. Road 3728 Yard Office RoadCity, State, and Zip Code Shepherd MT 59079 Laurel MT 59044Phone Number Shepherd (406) 373-5741 Park City (406) 860-6382

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**Section D - NMP Minimum Elements:****1. Livestock Statistics**

<i>Animal Type and number of animals</i>	<i># of Days on Site (per year)</i>	<i>Annual Manure Production (tons, cu. yds. or gal)</i>
1. 1200 Beef Cattle, 450-800 lbs	100 Days	1800 ton
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Method used for estimating annual manure production:

Based on the DEQ 9 Table 1 section 2, page 13

These calves are all limit fed so waste production is much less.

**2. Manure Handling**

Describe manure handling at the facility:

Wet Manure is pushed up into piles in the middle of each pen from Dec. 1 to April 30 as needed.

During hot summer months, May 1 to September 30th, the wet manure piles are spread out over the pens for dust control. It is then re-piled into dry piles and hauled out of pens to be spread in the fields. This method reduces the amount of tons to be hauled out by approximately 75%.

Frequency of Manure Removal from confinement areas:

Manure is removed from pens between July 15 to December 1st after the crops have been harvested off of the fields.

Is this manure temporarily stored in any location other than the confinement area? ☐ Yes ☒ No  
If so then how and where?

Is manure stored on impervious surface? ☐ Yes ☒ No

If yes, describe type and characteristics of this surface:

**3. Waste Control Structures**

<i>Waste Control Structure (name/type)</i>	<i>Length (ft)</i>	<i>Width (ft)</i>	<i>Depth (ft)</i>	<i>Volume (cubic ft or gallons)</i>
1. Settling pond	360'	200'	4'	2,164,240 gallons
2. Holding pond	220'	200'	4'	1,316,480 gallons
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

**4. Disposal of Dead Animals**

Describe how dead animals are disposed of at this facility:

Deads are removed from pens as soon as possible.

Baker Commodities Rendering Company picks the deads up once a week.

Cattle that the rendering truck does not pick up are placed under manure piles to decompose.

**5. Clean Water Diversion Practices**

Describe how clean water is diverted from production area:

Ditches

Built up roadways

2' to 3' berms

## 6. Prohibiting Animals and Wastes from Contact with State Waters

Describe how animals and wastes are prohibited from direct contact with state waters:

Animals: Wood and barbed wire fences

Wastes: Lagoons, 30" and wider vegetative strips, built up roadways, ditches and berms.

Yellowstone River is 4 miles away from feedlot facility.

Describe how chemicals and other contaminants are handled on-site:

Chemicals are ordered on an as needed basis and then applied immediately. No chemicals are stored on the facility site.

## 8. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's **production area**. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Clean water diversions were described in section D5 and are currently in use.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's **land application area**. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites; never spray irrigating wastes onto frozen ground; consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.

Plant sampling/tissue analysis	<input checked="" type="checkbox"/> yes/no	Rotational grazing	yes/no <input checked="" type="checkbox"/>
Conservation or reduced tillage	<input checked="" type="checkbox"/> yes/no	Manure injection or <u>incorporation</u>	<input checked="" type="checkbox"/> yes/no
Terraces or other water control structures	<input checked="" type="checkbox"/> yes/no	Contour plantings	yes/no <input checked="" type="checkbox"/>
Riparian buffers or vegetative filter strips	<input checked="" type="checkbox"/> yes/no	Winter "scavenger" or cover crops	yes/no <input checked="" type="checkbox"/>

Other examples Frequency of application of manure is based on annual soil samples, manure tests, crop yield goals and other seasonal variables.

## 9. Implementation, Operation, Maintenance and Record Keeping – Guidance

The permittee is required to develop guidance addressing implementation of NMP, proper operation and maintenance of the facility, and record keeping as described in Part II of the permit.

Has a guidance document been developed for the facility? ☒ Yes      No

Certify the document addresses the following requirements:

Implementation of the NMP:	<input checked="" type="checkbox"/> Yes	No
Facility operation and maintenance:	<input checked="" type="checkbox"/> Yes	No
Record keeping and reporting:	<input checked="" type="checkbox"/> Yes	No
Sample collection and analysis:	<input checked="" type="checkbox"/> Yes	No
Manure transfer:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Provide name, date and location of most recent documentation:

Weschenfelder Feedlot Office, 2009. Records established 2004.

If your answer to any of the above question is no, provide explanation

N/A

**Section E – Land Application**

Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?

No If no, then provide an explanation of how animal waste at this site are managed.

■ Yes If yes, then the information requested in Section E must be provided.

As noted in #2 Manure handling, about 75 % of the total waste is consumed on site. The balance of the manure is sold to local farmers or spread on our own fields as needed after fall harvest.

**Photos and/or Maps**

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any down-gradient surface waters
- The location of any down-gradient open tile line intake structures
- The location of any down-gradient sinkholes
- The location of any down-gradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field.
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

**Land Application Equipment Calibration**

Describe the type of equipment used to land apply wastes and the calibrating procedures:

Trucks with spreader boxes mounted on them. Loads are weighed and applied at need rate per field in accordance with the recommendations of the MSU Extension Service and DEQ Circular 9.

**Manure Sampling and Analysis Procedures**

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to the following method:

■ The recommended method(s) found in Section 5 of Department Circular DEQ 9

Other (describe) \_\_\_\_\_

**Soil Sampling and Analysis Procedures**

A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater.

Soil sample collection will occur according to the following method:

■ The recommended method(s) found in Section 5 of Department Circular DEQ 9

Other (describe) \_\_\_\_\_

**Land Application Data-Narrative approach**

The following must be filled out for each field to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. Fields with identical crops and soil types may be grouped together.

**Crops and Manure**

Field Name and spreadable acres for each (for fields with identical crops and soils type):

THIS DESCRIBES ALL FIELDS:

Site 1 - 100 acres

Site 2 - 204 acres

<b>Crop 1 (year 1 or ?) plant species</b>	Corn - 5 years
Irrigated (Y/N)	yes
Yield Goal (ton/ac or bushel/ac)	30 ton per acre
N Content of soil as nitrate (lbs/acre or ppm)	sites 1 and 2 - reference soil samples
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm)	sites 1 and 2 - reference soil samples
Time of Year When Application will Occur (month)	July 15 to December 1st (after harvest)
Application frequency (per year by month)	Fall
Form of manure (liquid/solid)	Solid
Method of Application	Spreader truck
Is manure incorporated or broadcast?	incorporated
Frequency of Application (yearly, biannual, etc.?)	as needed, not more than once annually *
<b>Crop 2</b>	N/A
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, etc?)	

- Possibly banking 3-5 years P in one application, based on annual soil sample, manure tests, crop yield goals and other seasonal variables

### Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

#### Method Used

Indicate which method will be used to determine phosphorus application:

- ☒ Method A – Representative Soil Sample  
Method B – Phosphorus Index

#### Method A – Representative Soil Sample

- Obtain one or more representative soil sample(s) from the field.
- Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
<i>Olsen P Soil Test Result (ppm)</i>	<i>Application Basis</i>
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

#### Method B – Phosphorus Index

- Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
<i>Total Phosphorus Index Value</i>	<i>Site Vulnerability to Phosphorus Loss</i>
<11	Low
11-21	Medium
22-43	High
>43	Very High

- Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	
<i>Site Vulnerability to Phosphorus Loss</i>	<i>Application Basis</i>
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application



- d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

<b>Nutrient Budget Worksheet</b>			
<b>Site/Field: 1 - 100 acres</b>			
<b>Nutrient Budget</b>		<b>Nitrogen-based Application</b>	<b>Phosphorus-based Application</b>
	Crop Nutrient Needs, lbs/acre included in Department Circular DEQ 9	222	50 *
(-)	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	N/A	N/A
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)	N/A	N/A NO MANURE APPLIED
(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	N/A **	N/A **
(-)	Nutrients supplied in irrigation water, lbs/acre	N/A ***	N/A ***
	<b>= Additional Nutrients Needed, lbs/acre</b>	222	50
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	22.2	22.0
(x)	Nutrient Availability factor (for Nitrogen based application see DEQ-9, below; for Phosphorus based application use 1.0)	.45	1.00
	<b>= Available Nutrients in Manure, lbs/ton or lbs/1,000 gal</b>	9.99	22.00
	Additional Nutrients needed, lbs/acre (calculated above)	222	50
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	9.99	22.
	<b>= Manure Application Rate, tons/acre or 1,000 gal/acre</b>	22 ton/acre	2.27 ton/acre

Comments:

\* P removal calculated for 30 ton corn silage

re: Wisc. & TX studies for 20 ton silage from MSU Extension website.

\*\* If a starter or other commercial product is used, it will be subtracted and accounted for in the records.

\*\*\* Sampled separately, irrigated as needed, noted in records.

- d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient Budget Worksheet			
Site/Field: <b>2</b> <b>204 acres</b>			
Nutrient Budget		Nitrogen-based Application	Phosphorus-based Application
	Crop Nutrient Needs, lbs/acre included in Department Circular DEQ 9	208	50 *
(-)	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	N/A	N/A
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)	N/A	N/A NO MANURE APPLIED
(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	N/A **	N/A **
(-)	Nutrients supplied in irrigation water, lbs/acre	N/A ***	N/A ***
	= Additional Nutrients Needed, lbs/acre	208	50
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	22.2	22.0
(x)	Nutrient Availability factor (for Nitrogen based application see DEQ-9, below; for Phosphorus based application use 1.0)	.45	1.00
	= Available Nutrients in Manure, lbs/ton or lbs/1,000 gal	9.99	22.00
	Additional Nutrients needed, lbs/acre (calculated above)	208	50
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	9.99	22.
	= Manure Application Rate, tons/acre or 1,000 gal/acre	20.8 ton/acre	2.27 ton/acre

Comments:

\* P removal calculated for 30 ton corn silage

re: Wisc. & TX studies for 20 ton silage from MSU Extension website.

\*\* If a starter or other commercial product is used, it will be subtracted and accounted for in the records.

\*\*\* Sampled separately, irrigated as needed, noted in records.

**Section F - CERTIFICATION****Permittee Information:**

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

**All Permittees Must Complete the Following Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information: including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

**A. Name (Type or Print)**

Dan Weschenfelder

**B. Title (Type or Print)**

Vice-President

**C. Phone No.**

406-373-5741

**D. Signature****E. Date Signed**

1-30-09

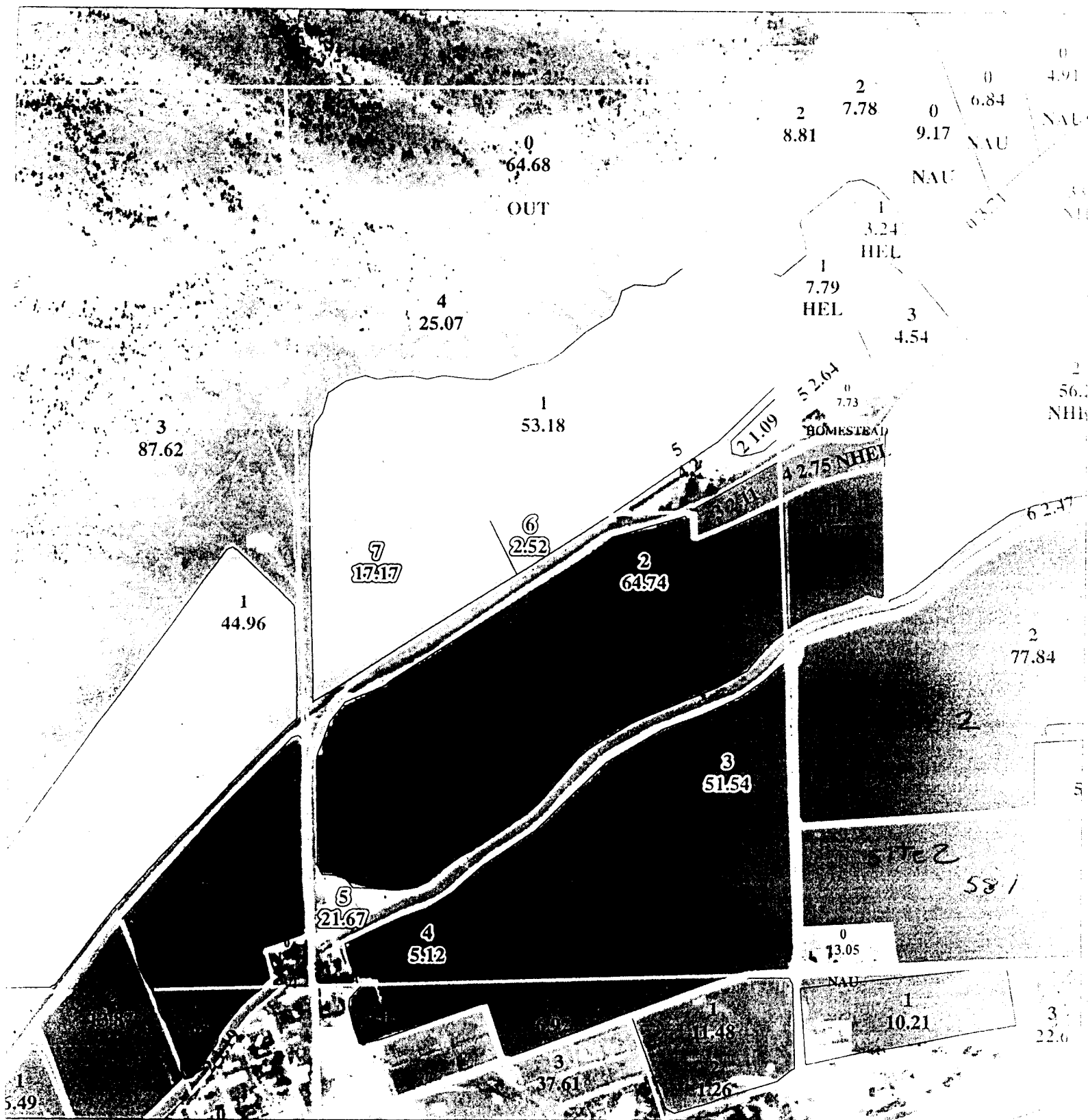
Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality  
Water Protection Bureau  
PO Box 200901  
Helena, MT 59620-0901  
(406) 444-3080

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PERMITTING & COMPLIANCE DIV.



December 07, 2007

Farm - Tract  
1393 - 14012  
Dan Weschenfelder

# Stillwater County

20-2S-23E



USDA  
Farm Service Agency

This map is for USDA-FSA Program purposes only. It does not constitute a guarantee or representation as to the accuracy, completeness, or reliability for any other purpose. The user of this map assumes all risks associated with its use.

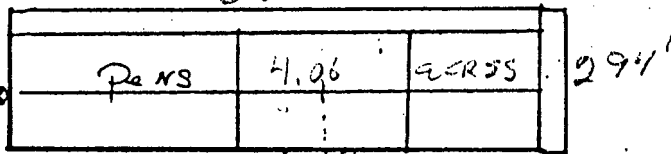
Disclaimer: Wetland identifiers do not represent a specific determination of the area. Refer to the specific determination (CPA-026 and attached map) for the wetland boundaries and determinations.

# Farm Land

Feed mill

SCALE  
SCALE  
HOUSE

600

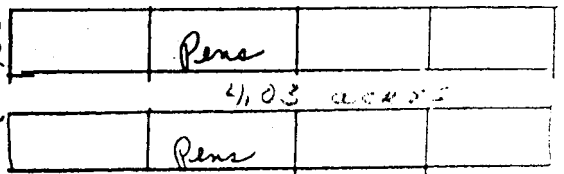


Road

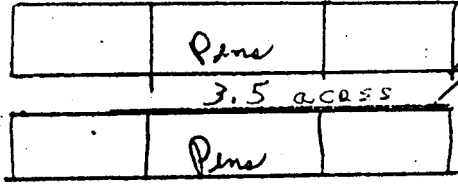
DRAIN DITCH  
(DIRT)

646' x

272'



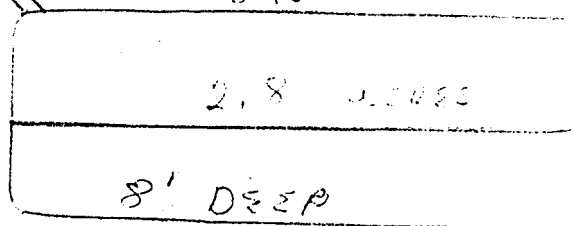
561'



273'

546'

224'



Weschenfelder Feedlot - Park City